8.18.4 RHIC Deionizer- Handling Procedure

Text Pages 1 through 3

Attachments

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials

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AGS Department Chairman Date

Approved: _____ 3/30/99
RHIC Project Head Date

E. Dale

8.18.4 RHIC DEIONIZER - HANDLING PROCEDURE

1. Purpose

To provide instruction for handling deionizers (DI)

2. Responsibilities

Mechanical service technicians are responsible to operate and service deionizers

3. Prerequisites

None

4. Precautions

4.1 The Radiological Control Division (RCD) is responsible to perform radiological assays and determine the ultimate disposition of the deionizer, resin & water. Notification of RCD should be made as soon as deionizers are removed from service for radiological assay.

5. Procedure

5.1 Deionizer Removal

5.1.1 Remove bottom of Service Tag to indicate DI out of service.

5.1.2 Close isolation valves to DI being removed.

5.1.3 Open vent valve slowly and drain water to a container for analysis and disposition.

5.1.4 Once DI is vented and hoses drained , disconnect the DI hoses and move unit to out of service location.

5.1.5 Exchange vent valve from out of service DI unit with plug from DI unit ready for service. Cap and/or plug other openings on "out of service" unit.

5.1.6 Fill "Chain of Custody" form and forward with water & resin sample to RSD Analytical lab for gamma scan with the accelerator library.

5.1.7 Based on the analysis the RSD shall make the determination whether the DI can be shipped as uncontaminated material and released from control.

5.1.8 If approved by the RCD, fill in and submit shipping memo.

5.1.9 If analysis indicates the units should be controlled as radioactive material, they may not be regenerated off site and shall be handled as radioactive waste.

5.2 Deionizer Installation

5.2.1 Remove bottom of service tag to indicate DI in service.

5.2.2 Place and secure ready for service DI unit and connect hoses. Crack supply and return valves to fill DI and vent air with vent valve. When air has been vented open return and supply valves fully. Check for leaks and verify flow at indicator.

6. Documentation

6.1 RHIC DI Log Sheet

7. References

None

8. Attachments

8.1 RHIC DI Log Sheet

8.2 RHIC DI Service Tag [future]

RHIC DI LOG SHEET

REV NO - 7/29/98

Unit ID No.	In Service Date	Out of Service Date	Test Sample Date	Test Results Date	Green Tag Yes/No